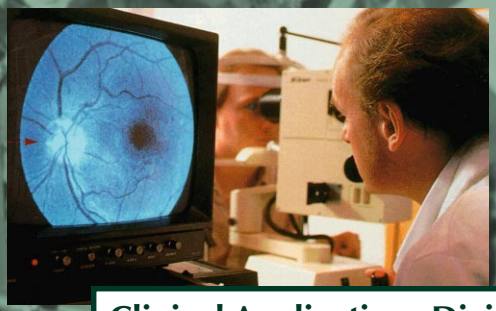
Telemedicine & Advanced Technology Research Center

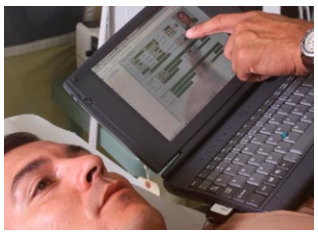
MISSION: To apply physiological and medical knowledge, advanced diagnostics, simulations, and effector systems with information and telecommunications for the purposes of enhancing operational and medical decision making, improving medical training, and delivering medical treatment across all barriers. The program scope includes the identification, exploration, and demonstration of key technologies and enabling biomedical principles that are required to overcome technology barriers that are both medically and militarily unique.

Telemedicine reflects the convergence of technological advances in a number of fields, including telecommunications, space science (e.g., satellites), materiel sciences, robotics, computer and software engineering, artificial intelligence, perceptual psychology, and medicine.



Clinical Applications Division (CAD)...

develops solutions to clinical business practice challenges to enhance patient care, improve the process in which health care is provided, monitor private and Federal technology sectors to identify emerging telemedicine and advanced medical applications, and improve provider business practices.



Information Science Division (ISD)...

develops advanced internet solutions to support the application of telemedicine and medical technologies; medical informatics devices that expedite the transfer of patient information from a database to a health care provider; artificial intelligence, modeling, and simulation solutions to Military Health System challenges; and tools that enhance clinical decision-making processes.

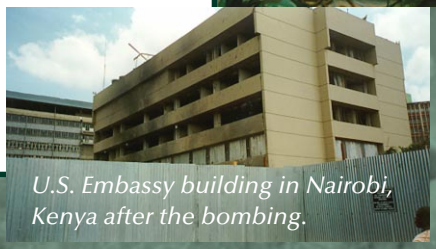
Trauma Patient Simulator

Program Integration and Planning (PIP) Division...

implements strategic planning and manages a wide variety of Congressionally mandated programs, and leverages over 20 Congressional Special Interest Programs to achieve the DoD Science and Technology objectives.

Operations Division (OPS)...

operates a Prototyping, Integration and Testing Laboratory (PITLAB) to develop and evaluate medical and telecommunications technology, supports deployment of telemedicine and advanced technology solutions to medical units worldwide, and provides technical support to deployed units for fielded technologies.



U.S. Embassy building in Nairobi, Kenya after the bombing.